Background Reading for Laboratory #3 – Cellular Physiology
Nutrient-dependent Cell Survival in Human Liver Cancer Cells

If you don’t already have the documents listed below, click on the link to obtain them (with the exception of Freshney’s book chapter).

Reading Checklist:

• Background and Laboratory Description (you have the hard copy from week 2)
• The Biochemistry of Apoptosis (Nature review article)
• Caspases (Journal of Biological Chemistry review article)

• Ian Freshney’s Biology of the Cultured Cell (you have the hard copy from week 1)
• Use of Cultured Cells-2004 (you have the hard copy from week 1)
• Culture of Animal Cells from Jeffrey Cooper’s book

As described in Jeff Cooper’s book, Harry Eagle pioneered the science of cell culture in the 1950’s. In this classic work, he first described the ‘particular’ requirement of growing cells for glutamine, over and above that for the other 19 amino acids.

• Classic Harry Eagle paper

You will be responsible for the general information contained in the articles. A quiz will be given on February 12th covering the basic principles of apoptosis, cell culture, caspases, and the experimental principles utilized in lab 3.